## CENTER FOR DRUG EVALUATION AND RESEARCH

# APPLICATION NUMBER: 022516Orig1s000

#### **PHARMACOLOGY REVIEW(S)**

### PHARMACOLOGY/TOXICOLOGY FILING CHECKLIST FOR NDA/BLA or Supplement

NDA/BLA Number: 22-516 Applicant: Eli Lilly and Company Stamp Date: 05/15/2009

Drug Name: Cymbalta® NDA/BLA Type: 505b(1)

(Duloxetine HCl, LY248686)

On **initial** overview of the NDA/BLA application for filing:

	Content Parameter	Yes	No	Comment
1	Is the pharmacology/toxicology section organized in accord with current regulations and guidelines for format and content in a manner to allow substantive review to begin?			NA: No new nonclinical information submitted. The Applicant will cross reference to NDA 21-733 (AP 03Sept 04, DAARP) and NDA 22-148 (AP 13 Jun 2008, DAARP) for all supporting non- clinical information
2	Is the pharmacology/toxicology section indexed and paginated in a manner allowing substantive review to begin?			NA
3	Is the pharmacology/toxicology section legible so that substantive review can begin?			NA
4	Are all required (*) and requested IND studies (in accord with 505 b1 and b2 including referenced literature) completed and submitted (carcinogenicity, mutagenicity, teratogenicity, effects on fertility, juvenile studies, acute and repeat dose adult animal studies, animal ADME studies, safety pharmacology, etc)?	X		See under NDA 21-733 and NDA 22-148
	If the formulation to be marketed is different from the formulation used in the toxicology studies, have studies by the appropriate route been conducted with appropriate formulations? (For other than the oral route, some studies may be by routes different from the clinical route intentionally and by desire of the FDA).	X		See under NDA 21-733 and NDA 22-148
6	Does the route of administration used in the animal studies appear to be the same as the intended human exposure route? If not, has the applicant <u>submitted</u> a rationale to justify the alternative route?	X		
7	Has the applicant <u>submitted</u> a statement(s) that all of the pivotal pharm/tox studies have been performed in accordance with the GLP regulations (21 CFR 58) <u>or</u> an explanation for any significant deviations?	X		

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8	Has the applicant submitted all special studies/data requested by the Division during pre-submission discussions?	X		See under NDA 21-733 and NDA 22-148
9	Are the proposed labeling sections relative to pharmacology/toxicology appropriate (including human dose multiples expressed in either mg/m2 or comparative serum/plasma levels) and in accordance with 201.57?	X		
10	Have any impurity – etc. issues been addressed? (New toxicity studies may not be needed.)	X		
11	Has the applicant addressed any abuse potential issues in the submission?	X		
12	If this NDA/BLA is to support a Rx to OTC switch, have all relevant studies been submitted?			NA

12 If this NDA/BLA is to support a Rx to OTC switch, have all relevant studies been submitted?		NA
IS THE PHARMACOLOGY/TOXICOLOGY FILEABLE? <u>Yes</u>	SECTION	OF THE APPLICATION
If the NDA/BLA is not fileable from the pharma and provide comments to be sent to the Applican	•	cology perspective, state the reasons
Please identify and list any potential review issued day letter.	es to be forw	varded to the Applicant for the 74-
Reviewing Pharmacologist		Date
Team Leader/Supervisor		Date

File name: 5\_Pharmacology\_Toxicology Filing Checklist for NDA\_BLA or Supplement 010908

This is a representation of an electronic record that was signed electronically and this page is the manifestation of the electronic signature.

/s/

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Kathleen Young 6/29/2009 10:38:23 AM PHARMACOLOGIST

Adam Wasserman 6/29/2009 10:47:14 AM PHARMACOLOGIST